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21

<211> 22

<213> Artificial Sequence

<223> Description of Artificial Sequence: primer

22

<211> 23

<213> Artificial Sequence

<223> Description of Artificial Sequence: primer

23

<211> 23

<213> Artificial Sequence

<223> Description of Artificial Sequence: primer

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<211> 30

<213> Artificial Sequence

<223> Description of Artificial Sequence: primer

<400> 10

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<213> Artificial Sequence

<223> Description of Artificial Sequence: primer

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<213> Artificial Sequence

<223> Description of Artificial Sequence: primer

21

<213> Artificial Sequence

<223> Description of Artificial Sequence: primer

21

<213> Artificial Sequence

<223> Description of Artificial Sequence: primer

<400> 14

gggagaggggt cagcagcaga ca

22

<210> 15

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<400> 15

gacagcaagc cagtgataag ca

22

<210> 16

<211> 19

<212> DNA

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<220>

<223> Description of Artificial Sequence: primer

<400> 16

ggaacaggga ctctctgca

19

<210> 17

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<400> 17

gggaagggtg aggaagtgtg

20

<210> 18

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<400> 18

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<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<400> 19

gaagaatggc caacagaagc t

21

<210> 20

$\langle 211 \rangle$  20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<400> 20

gggaaacaag gagtgtgagt

20

<210> 21

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer'

<400> 21

catgtatatg cggccgctgc gccagcaatg tatccatgg

39

<210> 22

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer'

<400> 22



tttttgagtc cccttagtat ttatt

25

<210> 27

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<400> 27

aggtattgtc caaggtttct cc

22

<210> 28

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<400> 28

ctttacaaag cagtattgct gc

22

<210> 29

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<400> 29

gtaaaggatc aagtgctgtg c

21

<210> 30

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<400> 30



gactaagctt aagaacccat cagagatgc

29

<210> 31

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<400> 31

agactggatc cgtaaagtcg ctatcgacag c

31

<210> 32

<211> 208

<212> DNA

<213> retroviral provirus

<400> 32

catctccctc aggagaaaca cccacgaatg atcaataaat actaagggga ctgagaggct 60  
ggtgggatcc tccatatgct gaacgttggt tcccggggcc cccttatttc tttctctata 120  
ctttgtctct gtgtcttttt cttttccaag tcttcttcat ttgcaccta cgagaaacat 180  
ctccatcatg gttgttggtat gggggcaa 208

<210> 33

<211> 1060

<212> DNA

<213> retroviral provirus

<400> 33

ctgcagggtg acccaacagc tccgaagaga cagtgcacac gagaacgggc catgatgacg 60  
atggcggttt tgtcgaaaag aaaaggggga aatgtgggga aaagcaagag agatgagatt 120  
gttactgtgt ctgtatagaa agaagtagac ataggagact ccattttgtt ctgtactaag 180  
aaaaattctt ctgccttgag atgctgttaa tctatgacct tcccccaac cccgtgctct 240  
ctgaaacatg tgccgtgtca aactcagggt taaatggatt aagggtggtg caagatgtgc 300  
tttgttaaac agatgcttga aggcagcatg ctcattaaga gtcacacca ctccctaata 360  
tcaagtaacc agggacacaa aactgcgaa aggccgcagg gacctctgcc taggaaagcc 420  
aggtattgtc caaggtttct ccccatgtga tagtctgaaa tatggcctcg tgggaaggga 480  
aagacctgac catccccag accaacaccc gtaaagggtc tgtgctgagg aggattagta 540  
taagaggaaa gcatgcctct tgcagttgag agaagaggaa gacatctgtc tctgcccata 600  
cccctgggca atggaatgtc tcagtataaa acccgattga acattccatc tactgagata 660  
gggaaaaaact gccttagggc tggaggtggg acatgtgggc agcaatactg ctttgtaaag 720  
cattgagatg tttatgtgta tgtatatcta aaagcacagc acttgatcct ttacctgtgc 780  
tatgatgcaa acacctttgt tcacgtgttt gtctgtgac cctctcccca ctattgtctt 840  
gtgaccctga cacatctccc tcaggagaaa caccacagaa tgatcaataa atactaaggg 900

gactcagagg ctggtgggat cctccatatt ctgaacgttg gttcccgggg ccccttatt 960  
tctttctcta tactttgtct ctgtgtcttt ttcttttcca agtcttcttc atttgcacct 1020  
tacgagaaac atctccatca tggttgttgg atgggggcaa 1060

<210> 34  
<211> 1754  
<212> DNA  
<213> Human endogenous retrovirus

<400> 34  
atggtaacac cagtcacatg gatggataat cctatagaag tatatgttaa tgatagtgtg 60  
tgggtacctg gccccacaga tgatcgctgc cctgccaaac ctgaggaaga agggatgatg 120  
ataaatatatt ccattgggta tcattatcct cctattttgcc tagggagagc accaggatgt 180  
ttaatgcctg cagtcacaaa ttggttggtg gaagtaccta ctgtcagtc taacagtaga 240  
ttcacttata acatggtaag cgggatgtca ctcaggccac gggtaaatta ttacaagac 300  
ttttcttata aaagatcatt aaaatttaga cctaaaggga aaacttgccc caaggaaatt 360  
cctaaaggat caaagaatac agaagtttta gtttggaag aatgtgtggc caatagtgtg 420  
gtgatattac aaaacaatga attcgggaact attatagatt aggcacctcg aggtcaattc 480  
taccacaatt gctcaggaca aactcagtcg tgtccaagtg cacaagtga tccagctgtc 540  
gatagcgact taacagaaa tctagacaaa cataagcata aaaaattaca gtctttctac 600  
ctttgggaat gggaagaaaa aggaatctct accccaagac caaaaataat aagtcctgtt 660  
tctggtcctg aacatccaga attgtggagg cttactgtgg cctcacacca cattagaatt 720  
tggtctggaa atcaaaactt agaaacaaga tatcgtaagc cattttatac tatcgacct 780  
aattccattc taacggttcc tttaaaaagt tgcctaaagc ccccttatat gctagtgtg 840  
ggaaatatag ttattaaacc agectcccaa actataacct gtgaaaattg tagattgttt 900  
acttgcattg attcaacttt taattggcag caccgtattc tgctggtgag agcaagagaa 960  
ggcatgtgga tccctgtgtc cacggaccga ccggtggagg cctcgccatc catccatatt 1020  
ttgactgaaa tattaagg cgtttttaat agatccaaaa gattcatttt tactttaatt 1080  
gcagtgatta tgggattaat tgcagtcaca gctacggctg ctgtggcagg ggttgcatg 1140  
cactcttctg ttcagtcagt aaactttgtt aattattggc aaaagaattc tacaagattg 1200  
tggaattcac aatctagtat tgatcaaaaa ttggcaagtc aaattaatga tcttagacaa 1260  
actgtcattt ggatgggaga caggcttgac ttagaacatc atttccagtt acagtgtgac 1320  
tggaatacgt cagatttttg tattacaccc caaatttata atgagtctga gcatcactgg 1380  
gacatggtta gacgccatct acagggaaga gaagataatc tcactttaga catttccaaa 1440  
ttaaagaac aaattttcga agcatcaaaa gccatttaa atttggtgcc aggaactgag 1500  
gcaattgcag gagttgctga tggcctcgca aatcttaacc ctgtcacttg gattaagacc 1560  
atcagaagta ctatgattat aaatctcata ttaatcggtt tgtgcctgtt ttgtctgtt 1620  
ttagtctgca ggtgtacccc aacagctccg aaaaaaacag tgacatcgag aacgggcat 1680  
gaatgacaaa ggcggttttt gttccaaaaa aaaaaggggg aaattttggg gaaaaccaa 1740  
aaaatgaaaa tggt 1754

<210> 35  
<211> 520  
<212> DNA  
<213> Human endogenous retrovirus

<400> 35							
acatttgaag	ttctacaatg	aacccatcag	agatgcaaag	aaaagcgcct	ccacggagat		60
ggtaacacca	gtcacatgga	tggataatcc	tatagaagta	tatgttaatg	atagtgtatg		120
ggtacctggc	cccacagatg	atcgctgccc	tgccaaacct	gaggaagaag	ggatgatgat		180
aaatat ttc	attgggtatc	attatcctcc	tatttgcccta	gggagagcac	caggatgttt		240
aatgcctgca	gtccaaaatt	ggttggtaga	agtacctact	gtcagtccta	acagtagatt		300
cacttatcac	atggtaagcg	ggatgtcact	caggccacgg	gtaaattatt	tacaagactt		360
ttcttatcaa	agatcattaa	aatttagacc	taaagggaaa	acttgcccca	aggaaattcc		420
taaaggatca	aagaatacag	aagttttagt	ttgggaagaa	tgtgtggcca	atagtgtggg		480
gatattacaa	aacaatgaat	tcggaactat	tataqattag				520

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<210> 36
<211> 153
<212> PRT
<213> Human endogenous retrovirus
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<210> 37
<211> 603
<212> DNA
<213> Human endogenous retrovirus
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<400> 37
acatttgaag ttctacaatg aacccatcag agatgcaaag aaaagcgcct ccacggagat 60
ggtaacacca gtcacatgga tggataatcc tatagaagta tatgttaatg atagtgtatg 120
ggtaacctggc ccacagatg atcgctgccc tgccaaacct gaggaagaag ggatgatgat 180
aaatatttcc attgggtatc attatcctcc tatttgcta gggagagcac caggatgttt 240
aatgcctgca gtccaaaatt ggttggtaga agtacctact gtcagtccta acagtagatt 300
cacttatcac atggtaagcg ggatgtcact caggccacgg gtaaattatt tacaagactt 360
ttcttatcaa agatcattaa aatttagacc taaagggaaa acttgcccca aggaaattcc 420
taaaggatca aagaatacag aagttttagt ttgggaagaa tgtgtggcca atagtgtggt 480
gatattacaa aacaatgaat tcggaactat tatagattag gcacctcgag gtcaattcta 540
ccacaattgc tcaggacaaa ctcagtcgtg tccaagtgca caagtgagtc cagctgtcga 600
tag 603
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<400> 38
Met Val Thr Pro Val Thr Trp Met Asp Asn Pro Ile Glu Val Tyr Val
  1                      5                      10                      15
Asn Asp Ser Val Trp Val Pro Gly Pro Thr Asp Asp Arg Cys Pro Ala
      20                      25                      30
Lys Pro Glu Glu Glu Gly Met Met Ile Asn Ile Ser Ile Gly Tyr His
      35                      40                      45
Tyr Pro Pro Ile Cys Leu Gly Arg Ala Pro Gly Cys Leu Met Pro Ala
      50                      55                      60
Val Gln Asn Trp Leu Val Glu Val Pro Thr Val Ser Pro Asn Ser Arg
      65                      70                      75                      80
Phe Thr Tyr His Met Val Ser Gly Met Ser Leu Arg Pro Arg Val Asn
      85                      90                      95
Tyr Leu Gln Asp Phe Ser Tyr Gln Arg Ser Leu Lys Phe Arg Pro Lys
      100                      105                      110
Gly Lys Thr Cys Pro Lys Glu Ile Pro Lys Gly Ser Lys Asn Thr Glu

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125

Val Thr Ala Thr Ala Ala Val Ala Gly Val Ala Leu His Ser Ser Val

380

Glu

acatttgaag ttctacaatg aaccatcag agatgcaaag aaaagcgcct ccacggagat 60  
ggtaacacca gtcacatgga tggataatcc tatagaagta tatgttaatg atagtgtatg 120  
ggtacctggc ccacagatg atcgctgcc tgccaaacct gaggaagaag ggatgatgat 180

aaatatatttc	attgggtatc	attatcctcc	tatttgcccta	gggagagcac	caggatgttt	240
aatgcctgca	gtccaaaatt	ggttggtaga	agtacctact	gtcagtccta	acagtagatt	300
cacttatcac	atggtaagcg	ggatgtcact	caggccacgg	gtaaattatt	tacaagactt	360
ttcttatcaa	agatcattaa	aatttagacc	taaagggaaa	acttgcccca	aggaaattcc	420
taaaggatca	aagaatacag	aagttttagt	ttgggaagaa	tgtgtggcca	atagtgtggg	480
gatattacaa	aacaatgaat	tcggaactat	tatagattta	ggcacctcga	ggtcaattct	540
accacaattg	ctcaggacaa	actcagtcgt	gtccaagtgc	acaagtgagt	ccagctgtcg	600
atag						604

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<210> 40
<211> 181
<212> PRT
<213> Human endogenous retrovirus
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Glu Ser Ser Cys Arg  
180

<210> 41

<211> 182

<212> PRT

<213> Human endogenous retrovirus

<400> 41

Phe Thr Ile Pro Leu Ala Glu Gln Asp Cys Glu Lys Phe Ala Phe Thr  
1 5 10 15

Ile Pro Ala Ile Asn Asn Lys Glu Pro Ala Thr Arg Phe Gln Trp Lys  
20 25 30

Val Leu Pro Gln Gly Met Leu Asn Ser Pro Thr Ile Cys Gln Thr Phe  
35 40 45

Val Gly Arg Ala Leu Gln Pro Val Arg Asp Lys Phe Ser Asp Cys Tyr  
50 55 60

Ile Ile His Tyr Phe Asp Asp Ile Leu Cys Ala Ala Glu Thr Lys Asp  
65 70 75 80

Lys Leu Ile Asp Cys Tyr Thr Phe Leu Pro Ala Glu Val Ala Asn Ala  
85 90 95

Gly Leu Ala Ile Ala Ser Asp Lys Ile Gln Thr Ser Thr Pro Phe His  
100 105 110

Tyr Leu Gly Met Gln Ile Glu Asn Arg Lys Ile Lys Pro Gln Lys Ile  
115 120 125

Glu Ile Arg Lys Asp Thr Leu Lys Thr Leu Asn Asp Phe Gln Lys Leu  
130 135 140

Leu Gly Asp Ile Asn Trp Ile Arg Pro Thr Leu Gly Ile Pro Thr Tyr  
145 150 155 160

Ala Met Ser Asn Leu Phe Ser Ile Leu Arg Gly Asp Ser Asp Leu Asn  
165 170 175

Ser Lys Arg Met Leu Thr  
180



<210> 42  
 <211> 250  
 <212> DNA  
 <213> Human endogenous retrovirus

<400> 42  
 gtaaatgaca cctatgatgc actgccaccc ttctactgtt tcaccctgaa catctgcttt 60  
 ttacatctaa gtgattgtac ccaataaata gtgtggagac cagagctctg agccttttgc 120  
 agcctccatt ttgcaactgg tcccctggct cccaccttta tgaactctta acctgtcttt 180  
 tctcattcct ttgtcaccat tggactttgg gtaccctacg ggtggtgttg aggctgtcac 240  
 cgcacattaa 250

<210> 43  
 <211> 203  
 <212> DNA  
 <213> Human endogenous retrovirus

<400> 43  
 gtttagttaa tctataatct atagagacaa tgcttatcac tggcttgctg tcaataaata 60  
 tgtgggtaaa tctctgttca agactctcag ctttgaagct gtgagacccc tgatttccca 120  
 ctccacacct ctatatttct gtgtgtgtgt ctttaattcc tccagtgttg ctgggttagg 180  
 gtctcctcga cgagctgtcg tgc 203

<210> 44  
 <211> 283  
 <212> DNA  
 <213> Human endogenous retrovirus

<400> 44  
 aactcagctg ctgcacagtg gtgcagcctc cagagctcat gccattgcag tggtcagagc 60  
 ctggccctcc tcttcctgca tagaacctgg attcaatctg taagggtggga agtgcagcag 120  
 cagagaactc tggccttgca gagagtccct gttcccactt cacttttcctt ttcadcaaat 180  
 aaaaccctgc tttcactcat gcatcaaatt gtctgtgagc ctacattttt gtggccatgg 240  
 gacaagaaca ccatcttttag ctgagctagg gaaaagtcct gca 283

<210> 45  
 <211> 245  
 <212> DNA  
 <213> Human endogenous retrovirus

<400> 45  
 gatgtgacca ctgtgacctt cctacactgg agatgggtca cacttcctta cccttcccct 60  
 gctgtaccaaa taaataacag cacagcctga cattcgagc cattaccggt ctttgtgact 120  
 tgggtgtagt ggtatcccct agggcccagc tgtcttttct tttatctctt tgtcttgtgt 180  
 ctttattttct atgagtctct cgtctccgca catggggaga aaaaccata gaccctgtag 240

<210> 46  
 <211> 181  
 <212> DNA  
 <213> Human endogenous retrovirus

<400> 46  
 ctcacaaaaa taataaaagc ttctgttggc cattcttcag atcttcatct cttgtgagga 60  
 tccccctgta catgtaaaaa tgtaataaaa cttgtatcct ttctcctctt aatctgtctt 120  
 gcatcaatat cattcctaga cccagtcaga gatgggtgga ggtgagccgt acatttccct 180  
 a 181

<210> 47  
 <211> 287  
 <212> DNA  
 <213> Human endogenous retrovirus

<400> 47  
 cagagaactc cagccagctg tgatggagcc tcaggaagtt cacagttgca gcaggaagga 60  
 gcctggctgc tcctcttcct gtgtggaacc tgggattaga acaggctggc aggaagtgtt 120  
 ttagcaggga ctctggccta ctcacactcc ttgtttccc cctttcttcc ttttactca 180  
 ataaagccct gtcttactca ccattcaaatt tgtctgtgag cctgaatttt catggctgtg 240  
 ggacaaagaa cctatttttt agctgaacta aggaaaattc ctgcaa 287

<210> 48  
 <211> 264  
 <212> DNA  
 <213> Human endogenous retrovirus

<400> 48  
 gtgattgtct gctgaccctc tccccacaat tgtcttgtga ccctgacaca tccccctctt 60  
 cgagaaacac ccgcggatga tcaataaata ttaagggaac tcagaggctg gcaggatcct 120  
 ccatatgctg aacgctggtt gccccgggtc cccttctttc tttctctata ctttgtctct 180  
 gtgtcttttt cttttccaaa tctctcgtcc caccttacga gaaacacca caggtgtgtc 240  
 cgggcaacc aacgccacat aaca 264

<210> 49  
 <211> 40  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: primer

[illegible]